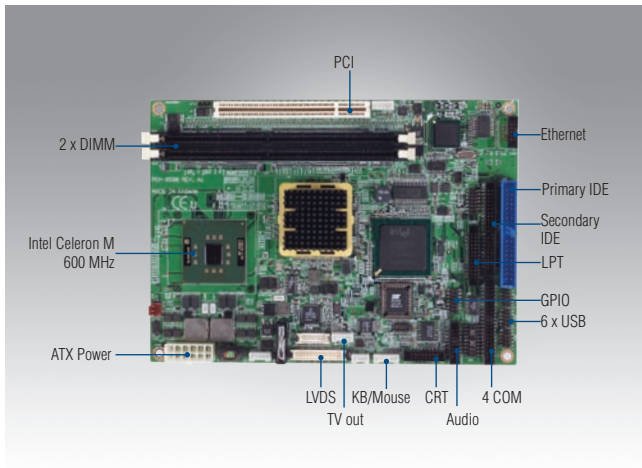


# PCM-9586

Intel® Celeron® M Processor 5.25" SBC with LAN/LVDS/Audio



## Features

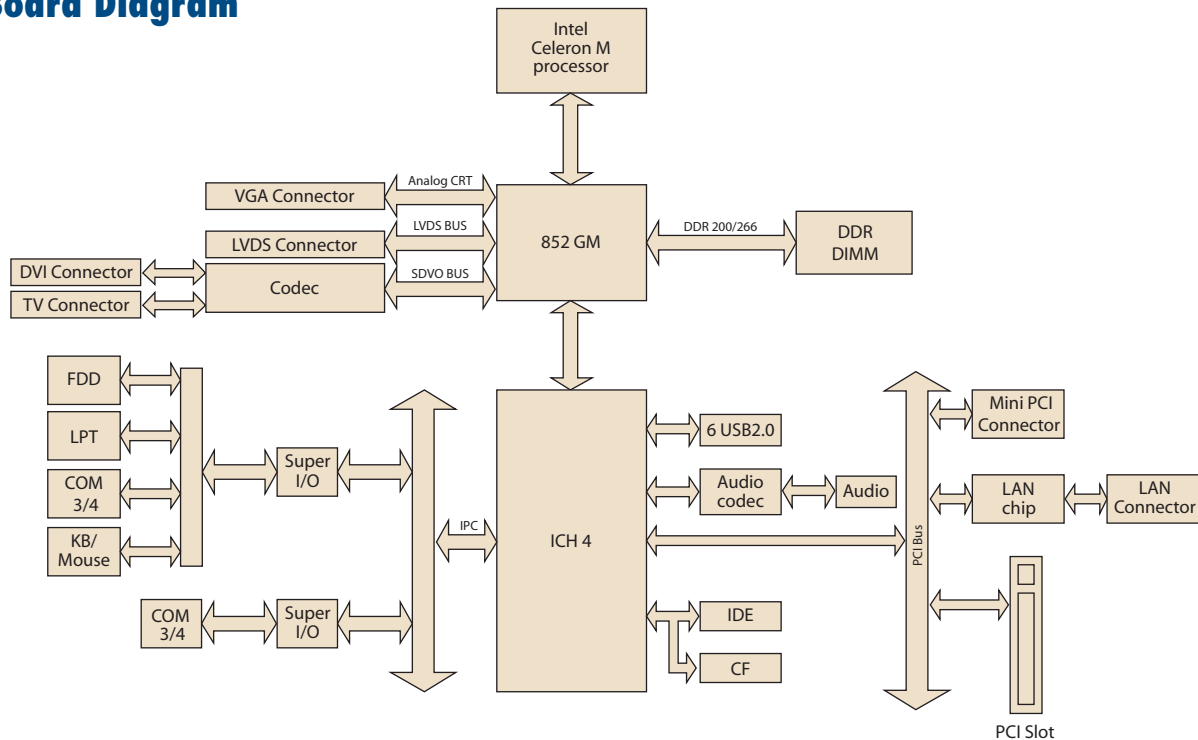
- Intel® Ultra low power Celeron M 600 MHz/ Celeron® M 1.0 GHz
- ECC DDR 200/266 128 MB to 2 GB
- 1000 Mbps Ethernet
- 6 USB 2.0 ports
- 4 COM ports, 8-bit GPIO, 48-bit LVDS interface
- Enhanced Intel Speedstep® Technology
- A wide range of temperatures (select models)



## Specifications

General	CPU	Celeron M 600 MHz	Celeron M 1 GHz
	2nd Cache Memory	512 KB	512 KB
	System Chipset	Intel 852GM GMCH + ICH4	Intel 852 GM GMCH + ICH4
	BIOS	AWARD® 4-Mbit	Award 4-Mbit
	System Memory	2 x 184-pin DIMM sockets, support Double Data Rate (DDR) 128 MB to 2 GB, accepts 128/256/512/1024 MB DDR 200/266 DRAM	
	Power Management	APM 1.2, ACPI support	
	SSD	Supports CompactFlash Card TYPE I/II (shared 2nd IDE Channel)	
	Watchdog Timer	255-level interval timer from 15 sec to 14835 sec, setup by software, jumperless selection, generates system reset	
	Expansion Interface	Support a PCI2.2 with 32-bit/33 MHz slot and Mini PCI interface	
	Power	Lithium 3 V/196 mAH	
I/O	I/O Interface	2 x EIDE (UDMA 100), 1 x FDD, 1 x K/B, 1 x Mouse, 3 x RS-232, 1 x RS-232/422/485, 1 x LPT	
	USB	6 x USB 2.0 compliant Ports	
	Audio	ICH4 chip. AC97 3D surround stereo sound Supports Speaker out, CD-input, Line -in, Line-out, Microphone (Support 8Ω 1W Speaker for Speaker output)	
	IrDA	SIR 115 kbps, IrDA 1.1 Compliant	
	GPIO	8-bit general purpose input/output	
Ethernet	Chipset	Intel 82551ER, optional 82551QM, 82541PI (Gigabit)	
	Speed	10/100 Mbps; 10/100/1000 Mbps (optional)	
	Interface	1 x RJ45 by cable	
	Standard	IEEE 802.3u 100 Mbps and IEEE 802.3z/ab 1000 Mbps compatible Built-in boot ROM in Flash BIOS (optional)	
Display	Chipset	Intel 852GM chip integrated. (Extreme Graphics 2)	
	Memory Size	Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory	
	Resolution	CRT Display mode: pixel resolution up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz LCD Display mode: Dual channel LVDS panel supports up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz	
	LCD Interface	2 Channel LVDS	
	LVDS	Hirose connector support up to 2 channel (2 x 18-bit) LVDS LCD Panel PS: 48-bit LVDS possible but need confirm with AE for evaluation	
	TV-Out (Cable optional)	Support both NTSC/PAL, S-video and Composite Video	
	Dual Independent Display	CRT + LVDS	
Mechanical and Environmental	Dimensions (L x W)	203 x 146 mm (8" x 5.75")	
	Weight	0.85 kg (weight of total package)	
	Operating Temperature	0 ~ 60° C (32 ~ 140° F) , Z : -20 ~ 80° C (-4 ~ 176° F) (Optional), Z2 : -40 ~ 85° C (-40 ~ 185° F) (Optional)	
	Operating Humidity	0% ~ 90% relative humidity, non-condensing	
	Storage Temperature	-20 ~ 70° C (Accessory storage temperature: -20 ~ 60° C)	
	Storage Humidity	95% @ 60° C	
Power	Power Supply Voltage	ATX: +5 V ± 5%, +12 V ± 5%	
	Power Consumption	(Celeron M 600 with 256 MB DDR266) Max: +5 V @ 2.1 A, +12 V @ 0.22 A (HCT) Typical: +5 V @ 1.75 A, +12 V @ 0.2 A (XP)	

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	CRT	LVDS	TV out	10/100 LAN	Audio	USB2.0	RS-232	RS-232/422/485	LPT/FDD/KB/MS	CF	PCISlot	Mini PCI	Thermal Solution	Operating Temp.
PCM-9586F-MOA1E	Celeron M 600 MHz	512 KB	Yes	36-bit	Yes	1	Yes	6	3	1	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9586F-SOA1E	Celeron M 1.0 GHz	0 KB	Yes	36-bit	Yes	1	Yes	6	3	1	Yes	Yes	1	1	Passive	0 ~ 60° C
	Celeron M 600 MHz	512 KB	Yes	36-bit	Yes	1	Yes	6	3	1	Yes	Yes	1	1	Passive	-20 ~ 80° C
	Celeron M 600 MHz	512 KB	Yes	36-bit	Yes	1	Yes	6	3	1	Yes	Yes	1	1	Passive	-40 ~ 85° C
	Celeron M 1 GHz	0 KB	Yes	36-bit	Yes	1	Yes	6	3	1	Yes	Yes	1	1	Passive	-20 ~ 80° C

Note1: 48-bit LVDS possible but needs confirmation with AE for evaluation

Note2: For wide temperature, please contact sales rep.

### Optional Accessories

Part No.	Description
PCM-10586-6100E	Wiring kit for PCM-9581F/PCM-9586
CF-HDD-ADP	CompactFlash 50-pin to IDE 44-pin adapter
1703050306	TV-Out cable
1703100260	USB cable (26 cm)
PCM-110-00A3E	1-slot PCI riser card for 5.25" biscuits
PCM-120-00A3E	2-slot PCI riser card for 5.25" biscuits
MIO-3120-00A1E	Mini PCI interface to Wireless 802.11 b/g communication module
MIO-3121-00A1E	Mini PCI to 4 COM Module
MIO-3130-00A1E	Mini PCI Interface to Dual LAN Communication Module
MIO-3150-00A1E	Mini PCI interface to video capture module

### Packing List

Part No.	Description
	1 x PCM-9586 SBC
9689000002	1 x Mini Jumper Pack
	1 x Startup Manual
	1 x Utility CD
1700001112	1 x WIRE ATX-20P (M)/12P (F)+3P-2.0 mm 15 cm